

FIXTURE FOR A DRUM PADDLE ASSEMBLY

BACKGROUND OF THE INVENTION

1. Field of the Invention

Drum sets have been popular for many years whether used by big band orchestras, rock bands or jazz groups. However, the nature of drumming, that is, percussion, inevitably involves significant force in the striking of the bass drum. The constant impact of a foot-driven mallet on a bass drum causes very severe shake and vibration which in turn leads to loosening of components of the drum set. In particular, it is found that the drum paddle becomes unstable which makes the drummer lose concentration and as the drummer functions as the time keeper for the other musicians, the whole performance may be spoiled by the simple, undesirable effects of instability in the drum paddle.

The present invention relates to a fixture for a drum paddle assembly, and more particularly to a fixture having a pair of rods threadingly extendable into opposite sides of a first distal end of a base which is interconnected to a paddle at a second distal end of the base, a pair of ribs formed on opposite sides of the base, a pair of guiding grooves oppositely defined in a bottom portion of a bracket of a drum stand to correspond to the pair of ribs and a pair of notches oppositely defined in a mediate portion of the bracket of the drum stand such that after the ribs are received in the guiding grooves and the rods are received in the corresponding notches, the base is securely connected to the bracket of the drum stand.

2. Description of Related Art

With reference to Fig. 6, a conventional fixture structure to secure

1 engagement between the drum paddle (60) and the drum stand (50) includes two
2 extensions (62) respectively extending from opposite sides of the paddle (60)
3 and having a bend (620) formed on a free end of the extension (62). The paddle
4 (60) has a rear plate (61) pivotally connected to a distal end of the paddle (60)
5 such that when the paddle (60) is connected to a bracket (51) of the drum stand
6 (50), the rear plate (61) ensures that the paddle (60) receives stable support after
7 the two bend (620) are extended into two opposite walls of the bracket (51).
8 When the paddle (60) is to be disassembled, the two bend (620) are forced out of
9 the two walls of the bracket (51) and then the paddle (60) is able to be pivoted
10 relative to the drum stand (50).

11 Because the support to the paddle (60) only comes from the engagement
12 between the two extensions (62) and the bracket (51), the paddle (60) may still
13 shake when the drummer is playing the drum. That is, the support from the
14 engagement between the two extensions (62) and the bracket (51) is not
15 sufficient to balance the force exerted by the drummer to the drum.

16 To overcome the shortcomings, the present invention tends to provide an
17 improved fixture to mitigate the aforementioned problems.

18 SUMMARY OF THE INVENTION

19 The primary objective of the present invention is to provide an improved
20 fixture to provide a firm support to the paddle assembly having a base and a
21 paddle having a distal end pivotally connected to a rear plate which is securely
22 connected to the base.

23 In order to accomplish the foregoing objective, the fixture of the present
24 invention includes a pair of rods threadingly extendable into opposite sides of a

1 first distal end of a base which is interconnected to a paddle at a second distal end
2 of the base, a pair of ribs formed on opposite sides of the base, a pair of guiding
3 grooves oppositely defined in a bottom portion of a bracket of a drum stand to
4 correspond to the pair of ribs and a pair of notches oppositely defined in a
5 mediate portion of the bracket of the drum stand such that after the ribs are
6 received in the guiding grooves and the rods are received in the corresponding
7 notches, the base is securely connected to the bracket of the drum stand.

8 Other objects, advantages and novel features of the invention will
9 become more apparent from the following detailed description when taken in
10 conjunction with the accompanying drawings.

11 BRIEF DESCRIPTION OF THE DRAWINGS

12 Fig. 1 is an exploded perspective view of the present invention;

13 Fig. 2 is a perspective view showing the assembly of the fixture of the
14 present invention;

15 Fig. 3 is a schematic plan view showing the rods and the ribs are
16 respectively located in position in the bracket of the drum stand;

17 Fig. 4 is a side plan view showing the folding of the drum stand after the
18 fixture is disassembled;

19 Fig. 5 is an exploded perspective view of another embodiment of the
20 present invention; and

21 Fig. 6 is a perspective view of a conventional fixture for a drum stand.

22 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

23 With reference to Fig. 1, the fixture in accordance with the present
24 invention is adapted to combine with a drum stand (10) which has a bracket (11)

1 having two legs (110) extending out from the bracket (11), a paddle (30) having a
2 first distal end connected to the drum stand (10) by a chain (20) and a base (40)
3 having a first distal end connected to the bracket (11) and a second distal end
4 securely connected to the paddle (30) by means of a rear plate (31) which is
5 pivotally connected to a second distal end of the paddle (30).

6 The fixture of the present invention includes a pair of rods (44)
7 threadingly extendable into opposite sides of the first distal end (42) of the base
8 (40) which is interconnected to the paddle (30) at the second distal end (41) of
9 the base (40), a pair of ribs (43) formed on opposite sides of the base (40), a pair
10 of guiding grooves (111) oppositely defined in a bottom portion of the bracket
11 (11) of the drum stand (10) to correspond to the pair of ribs (43) and a pair of
12 notches (112) oppositely defined in a mediate portion of the bracket (11) of the
13 drum stand (10).

14 With reference to Figs. 2 and 3, it is to be noted that when the assembly
15 of the fixture of the present invention is required, the ribs (43) are received in the
16 guiding grooves (111) and the rods (44) are received in the corresponding
17 notches (112). Then the base (40) is securely connected to the bracket (11) of the
18 drum stand (10).

19 It is noted that the rods (44) preferably are threaded bolts so that the rods
20 (44) are able to threadingly extend toward each other until the engagement
21 between the base (40) and the bracket (11) is secured.

22 With reference to Fig. 4, when disassembly of the present invention is
23 required, the operator is able to gradually and threadingly extend the two rods
24 (44) away from each other to loosen the engagement between the first distal end

1 of the base (40) and the bracket (11). Then the ribs (43) are slid out of the guiding
2 grooves (111). Thereafter, the operator is able to fold the base (40) together with
3 the paddle (30) relative to the drum stand (10) for easy transportation.

4 With reference to Fig. 5, it is noted that the base (40) now has a pair of
5 guiding grooves (43') oppositely defined in a bottom portion of the base (40) and
6 a pair of notches (44') oppositely defined in a mediate portion of the base (40).
7 The bracket (11) of the drum stand (10) now has a pair of ribs (111') formed on a
8 bottom portion of the bracket (11) to correspond to the ribs (43') and a pair of
9 rods (112') formed on a mediate portion of the bracket (11) to correspond to the
10 notches (44'). With the combination between the ribs (111') and the guiding
11 grooves (43') and the rods (112') and the notches (44'), the fixture of another
12 embodiment of the present invention can still accomplish the predetermined goal
13 of securing engagement between the base (40) and the bracket (11) of the drum
14 stand (10).

15 It is to be understood, however, that even though numerous
16 characteristics and advantages of the present invention have been set forth in the
17 foregoing description, together with details of the structure and function of the
18 invention, the disclosure is illustrative only, and changes may be made in detail,
19 especially in matters of shape, size, and arrangement of parts within the
20 principles of the invention to the full extent indicated by the broad general
21 meaning of the terms in which the appended claims are expressed.